Blohm+Voss MEKO® A-200 Class Frigate

Stealthy. Versatile. Powerful.

OVERALL DESIGN FEATURES

The Blohm+Voss MEKO®

● Revolutionary top deck A-200 Class Frigate is the and corvette line of 60 ships The Blohm+Voss MEKO® A-200 Class is a general pur-CODAG-WARP propulsion, all-round stealth and superb

The MEKO® A-200 Class Frigate features:

- Complete new approach to hull shaping
- Dramatic reduction of radar, infra-red, acoustic and magnetic signatures
- CODAG/WARP water jet/ propeller propulsion

- Newly designed inner
- Larger payload share of

- Kevlar®/ceramic/steel sandwich armour panels
- Helicopter flight deck, hangar, workshops.

Four vessels have been delivered between 2005 and 2007 to the South African Navy, and have since proven operational capabilities

STEALTH DESIGN / SIGNATURE SUPPRESSION

RADAR SIGNATURES

- X-shaped cross section Optimised inclination of all
- outer surfaces
- No corner reflections
- No railings
- No outer surface mountings Covered open deck
- equipment Flush closing shell doors and
- Specially designed RCS reducing upper deck fitting

INFRA-RED SIGNATURES

- Proven, highly effective Shell and deck cooling
 - Avoidance of hot spots
 - - lines exiting at the vessel's
 - water to reduce exhaust gas

Optional diesel exhaust exits

ACOUSTIC SIGNATURES

- Propulsion and generating machinery encapsulated against airborne noise
- Elastomeric mountings counter hull
- Forefoot skeg and machinery's aft positioning reduce sonar self-noise
- CODAG/WARP drive chain enables quieter, smaller propellers and combines diesel and gas power in the water, not via a noisy combining gearbox.

MAGNETIC SIGNATURES

Tri-axial degaussing system.

ECONOMY

- High single diesel speed (18 knots) ensures most of underway life on one diesel engine = fuel economy,
- Cross connect gearbox enables cruising on single diesel engine on both shafts.

SURVIVABILITY

- Kevlar®/ceramic/steel sandwich splinter protection panels
- Four damage control zones, five smoke zones Fully redundant machinery and DC control
- Secondary conning station in aft mast
- Completely separated, redundant GT or diesel
- Full NBC protection (detection/filtration/citadel/ wash down)

 • Excellent damage length and supply separation
- Redundant combat management system and data highways.

HELICOPTER OPERATIONS

The superb sea-keeping and longitudinal stability enabled by the forefoot skeg combine with an exceptionally spacious hangar, large flight deck with harpoon grid and no funnel exhaust environment, to make for outstanding helicopter ops.

- 1 x 5-ton organic helicopter plus 2 x UAVs, or
- 2 x 5-ton organic helicopters, or
- 1 x 10 ton organic helicopter

- Air weapons magazine.

MAIN SPECIFICATIONS

Length over all	121.00m
Max beam	21.00 m
Draft full load	3.90 m
Displacement	3,600 t
Complement	120 + 50
Max speed CODAG	> 29 kn
Cruising speed, 2 dies	sels > 23 kn
Cruising speed, 1 dies	sel 18 kn
Tactical diameter	4.9 ship lengths -
Stopping distance	3 ship lengths
Endurance	28 days
Range (at 16 kn)	> 7,200 nm

32 MW total power output (gas turbine/ diesel engines) can be used both independently and simultaneously.

GROWTH POTENTIAL AND UTILITY

- Built-in growth potential with significant margins for electrical supply, mass, volume, cooling, HVAC, cable trays, cable and pipe penetrations
- First frigate in the world designed to carry 2 x 20 TEU containers without removal of any mission loads
- RAS (bow and side) and supply
- 2 x stern-launching compartments for mines, special forces, UUVs or towed decoys or arrays.

Blohm+Voss MEKO® A-200 Class Frigate: Quality "Made in Germany"









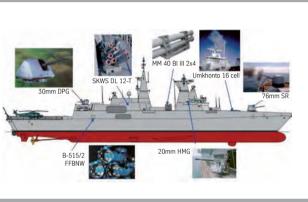
1: Dry and buoyant covered Fo'c'sle. 2: Spacious main alleyway for rapid DC team movement. 3: Integrated bridge. 4: Spacious engine rooms for ease of maintenance access. 5: All combustion engines encapsulated. 6: Captain's cabin. 7: Fully equipped hospital





Blohm+Voss MEKO® A-200 Class Frigate: Combat Superiority







Surface-to-surface MM40 Blk2 missile





State-of-the-art lead ships:

Blohm+Voss MEKO® A-200 Class Frigate

In service with the South African Navy.



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